

**ABSTRACT**

Devices and methods are disclosed for delivering a viscous bone cement material to a patient. A device includes a container containing a viscous bone cement and having an exit port. An actuator having an actuator vessel including an incompressible fluid is hydraulically coupled to the container. The container can be placed adjacent to a desired injection site in a fluoroscopic imaging field while the actuator can be actuated from a location outside of the fluoroscopic imaging field to hydraulically drive a flow of viscous bone cement through the exit port to the desired injection site.

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